

# OTB SERIES



## Online UPS Low frequency 6KVA to 20KVA (Single Phase in and Single phase out)

**OTB series** Online UPS 6KVA-20KVA is a true online double conversion single phase in and single phase out lowfrequency UPS, Adopting the online dual-change topological architecture design, the AC/DC input has a harmonious inhibitor, which eliminates various interference of the grid. IGBT power module and output isolation transformer, so that the output of UPS is a pure sine power with a steady frequency voltage, UPS has the characteristics of strong load capacity, good load compatibility, municipal electric input voltage, wide frequency range, no switching time output, excellent generator, and compatible matching.

## Features

- The double-conversion online design makes the output of the UPS a pure sinewave power supply with frequency tracking, phase-locked voltage regulation, noise filtering, low distortion, and no interface from the power grid providing more comprehensive and perfect protection for user equipment.
- DPS (Digital signal Processors) technology
- Output zero conversion time to meet the high standard requirements of precision equipment for power supply.
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- Wide input voltage ranges up to 165 ~ 275 VAC, avoid frequency switching to battery mode, which adapts to areas with harsh environments.
- Wide input frequency range, ensure all types of fuel generators connected work stably. High overload capability (up to 150%)
- Cold start and mains start function.
- Superior protections (surge, short-circuit, overvoltage, under voltage, overcharge, reverse battery protection, etc.)
- Advanced communications: RS232 port (Standard), USB, SNMP, dry contacts, and RS485 (Optional)
- Other options (input isolation transformer, bypass isolation transformer, and harmonic suppressor)

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# Applications

## Data centers:

ensure the functionality of environments and prevent losses caused by net failures.

## Financial services:

Maintains online operability of financial transactions and operations.

## Telecommunications:

Prevents supply failures that can suspend communication between subscribers.

## IT-Networks:

Prevent costs due to service interruptions or loss of information.

## Industrial processes:

protect productivity in electrically complicated environments.

## Infrastructure:

Safeguards the instruments/equipment and ensures the proper management of the systems.

# Technical Specifications

MODEL		OTB-6000B	OTB-10000B	OTB-15000B	OTB-20000B
RATED POWER		6KVA / 4.8KW	10KVA / 8KW	15KVA / 12KW	20KVA / 16KW
TECHNOLOGY		On-line double conversion, DSP control			
INPUT	Rated voltage	Single-phase Three wire (1 $\phi$ +N+PE) 220 / 230 / 240VAC			
	Voltage range	165 ~ 275 VAC			
	Rated frequency	50 / 60 Hz (45-65Hz)			
	Power factor	> 0.97			
OUTPUT	Rated voltage	Single-phase Three wire (1 $\phi$ +N+PE) 220 / 230 / 240VAC			
	Voltage accuracy	+ 0.5%			
	Power factor	0.8			
	THDv (linear load)	<2%			
	Frequency	50 / 60 Hz (+ 0.1% in battery mode)			
	On-line performance	85%		90%	
	Waveform	Sinusoidal			
	Crest factor	3:1			
	Overload	>125% for 1 min. / >150% for 200 ms			
BATTERY	Battery type	Lead acid, sealed, maintenance free			
	Rated voltage	192 VDC (12V x 16 no's)			
	Charging voltage	216 VDC			
SYSTEM	Transfer time	0 ms (line mode battery mode)			
	Communication interface	RS232 port (Standard), USB, SNMP, dry contacts, and RS485 (Optional)			
GENERAL	Operating temperature	0°C ~ +40°C			
	Relative humidity	Up to 95%, non-condensing			
	Maximum operating altitude	< 1500 m			
	Acoustic noise at 1 meter	< 55 dB			
STANDARD	Safety	EN-IEC 62040-1			
	Electromagnetic compatibility	EN-62040-2			
	Operation	VFI-SS-11 (EN-62040-3)			
	Corporate certification	ISO 9001, ISO 14001, ISO 45001			
PHYSICAL	Dimensions (L x W x H) mm	230 x 580 x 720	305 x 585 x 864	409 x 798 x 1044	
	Weight (kg)	85	120	180	200

\*information subject to change without prior notice

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